

## REMARKS/ARGUMENTS

### Claim Rejections under 35 U.S.C. 112

Claims 14, 27, 43 have been amended to replace the limitation “the portal server” with the limitation “the portal application”.

Claims 18 and 47 have been amended to replace the limitation “the background application” with the limitation “the backend application”.

Applicants submit that the above amendments to claims 14, 18, 27, 43, 47 overcome the Examiner’s rejections under 35 U.S.C. 112.

### Claim Rejections under 35 U.S.C. 102

The Examiner has rejected claims 1-50 under 35 U.S.C. 102(e) as being anticipated by Anuff (US 6,327,628). Applicants traverse the rejections of claims 1-50.

### Independent claims 1, 22, 30

Independent claims 1, 22, 30 requires implementing security features at a portal server, comprising:

- receiving a first request from a client;
- in response to receiving the first request, authenticating the client;
- consulting a database to determine access privileges of the authenticated client for interactions with a plurality of applications, wherein the applications are located at backend servers;
- generating code containing selectable interactions with the applications, wherein any authentication for the selectable interactions is performed within the portal server; and
- sending the code to the client.

The Examiner has rejected claims 1, 22, 30 under 35 U.S.C. 102(e) as being anticipated by Anuff. Applicants traverse.

Applicants have amended claims 1, 22, 30 to replace the term “can be” with “is”, such that in the amended claims 1, 22, 30 any authentication for the selectable interactions is performed within the portal server.

The claims require that any authentication for the selectable interactions is performed within the portal server, and these requirements are not taught or disclosed by the cited (col. 3,

lines 40-42; col. 13, lines 22-38; col. 9, lines 24-50; col. 1, line 59 – col. 2, line 12; col. 3, line 40 – col. 4, line 5; col. 3, lines 40-57) Anuff.

The Examiner has mentioned on Page 3, Item 8, of the Office action that col. 1, line 59 through col. 2, line 12 and col. 3, line 40 to col. 4, line 5 of the cited Anuff discloses the claim requirement that any authentication for the selectable interactions is performed within the portal server.

Col. 1, line 59 through col. 2, line 12 of the cited Anuff discusses a portal server that gives access to various databases, web servers, scripting environments and mail services. The portal server presents a front page that comprises a plurality of modules, where each module represents a resource of a particular type that can be accessed by the user utilizing the portal. Col. 3, line 40 to col. 4, line 57 of the cited Anuff discusses the links on the front page that permit the user to access specific pages associated with the sponsor of the portal, e.g., the user's employer. Each module displayed on the front page provides the user with access to a particular type of resource, such as , applications, databases, services, etc., that are available from one or more servers. Therefore, the cited Anuff discusses that the portal server displays a page, wherein selecting the links or modules displayed on the page provides the user with access to resources representing the links or modules.

However, the claims include the requirement that any authentication for the selectable interactions is performed within the portal server and this requirement is not disclosed by the cited Anuff. Applicants submit that the system of the cited Anuff does not preclude authentication of the selectable interactions from also being performed in servers other than or in addition to the portal server. Applicants submit that additional authentications may possibly be performed in the system of the cited Anuff in servers other than the portal server. Should the Examiner maintain the rejection of the claims the Examiner is requested to indicate where the cited Anuff discloses the claim requirement that any authentication for the selectable interactions is performed within the portal server.

For the above reasons claims 1, 22, 30 are patentable over the cited art.

Independent claims 13, 26, 42

Independent claims 13, 26, 42 require a backend system for securely making available a backend application, comprising:

creating data structures corresponding to interactions with the backend application;  
associating privileges for each of the data structures, wherein the privileges are fully checked at a portal application separately hosted from the backend application;  
receiving, at the backend application, a request from the portal application for reading the data structures; and  
sending, from the backend application, the data structures to the portal application.

The Examiner has rejected claims 13, 26, 42 under 35 U.S.C. 102(e) as being anticipated by Anuff. Applicants traverse.

Applicants have amended claims 13, 26, 42 to replace the term “can be” with “are”, such that in the amended claims 13, 26, 42 the privileges are fully checked at a portal application separately hosted from the backend application. Additionally, Applicants have added the requirements that the receiving is at the backend application and the sending is from the backend application.

The claims require that the privileges associated with each of the data structures are fully checked at a portal application separately hosted from the backend application and nowhere does the cited (col. 1, lines 62-67; col. 4, lines 23-26 and 16-18; col. 9, lines 45-50; col. 8: lines 50-64 and 47-56) Anuff teach or disclose these claims requirements.

The Examiner has indicated that col. 4, lines 16-18 and col. 9, lines 45-50 of the cited Anuff discloses the claim requirement that the privileges associated with each of the data structures are fully checked at a portal application separately hosted from the backend application.

Col. 4, lines 16-18 of the cited Anuff discusses that a portal server runs on one or more servers. Col. 9, lines 45-50 of the cited Anuff discusses that the portal server manages user retrieval and authentications through a general API, and a portal server configuration property specifies the actual classes that are used at runtime, and this design makes it possible to plug in any desired user manager implementation. Nowhere does the Examiner cited col. 4, lines 16-18 and/or col. 9, lines 45-50 of the cited Anuff teach or disclose the claim requirement that the privileges associated with each of the data structures are fully checked at a portal application separately hosted from the backend application.

Additionally, the claims require receiving, at the backend application, a request from the portal application for reading the data structures, and sending, from the backend application, the

data structures to the portal application and nowhere does the cited Anuff teach or disclose these claim requirements.

The Examiner has indicated that col. 8, lines 50-64 of the cited Anuff discloses the claim requirement of receiving, at the backend application, a request from the portal application for reading the data structures, and that col. 8, lines 47-56 of the cited Anuff discloses the claim requirement of and sending, from the backend application, the data structures to the portal application. Applicants submit that col. 8, lines 50-64 of the cited Anuff discusses how users can control modules within a page of the portal server within restrictions established by an administrator, where the portal administrator can reorder pages visually. Applicants also submit that col. 8, lines 47-56 of the cited Anuff discusses publishing a page to make the page available to one or more user groups, where the users can control modules within a page of the portal server within restrictions established by an administrator. Nowhere does the cited col. 8, lines 50-64 and col. 8, lines 47-56 of the cited Anuff teach or disclose the claim requirement of receiving, at the backend application, a request from the portal application for reading the data structures, and sending, from the backend application, the data structures to the portal application.

In fact the cited Anuff (col. 8, lines 50-64, col. 8, lines 47-56) discusses interactions between the portal server, clients and a portal server administrator. The claims require a backend application that performs the receiving and sending of the claim requirements, and nowhere does the cited Anuff teach or disclose a backend application that performs the receiving and sending of the claim requirements.

For the above reasons, claims 13, 26, and 42 are patentable over the cited art.

Independent claims 19, 28, 48

Independent claims 19, 28, 48 require accessing a group of applications at a client computer and comprises:

- authenticating with a portal server;
- receiving a list of applications and interactions that can be performed with the applications from the portal server, wherein the applications are stored at backend servers that are different from the portal server;
- selecting an interaction; and

receiving results based on the selection of the interaction without authenticating with the backend servers.

The Examiner has rejected claims 19, 28, 48 under 35 U.S.C. 102(e) as being anticipated by Anuff. Applicants traverse.

The claims require receiving results based on the selection of the interaction without authenticating with the backend servers and these requirements are not taught or suggested by the cited Anuff (col. 9, lines 45-50; col. 13, lines 32-38; col. 2, lines 1-12; col. 3, lines 61-65; col. 13, lines 60-62).

The Examiner has mentioned that col. 13, lines 61-62 of the cited Anuff discloses the claim requirement of receiving results based on the selection of the interaction without authenticating with the backend servers. Col. 13, lines 61-62 of the cited Anuff discusses that a module provides displays a list of available news categories as well as categories a user has already selected. Nowhere does the cited Anuff teach or disclose the claim requirement that the results are received without authenticating with the backend servers. Should the Examiner maintain the rejections, the Examiner is requested to indicate where the cited Anuff teaches or discloses the claim requirement that the results are received without authenticating with the backend servers.

For the above reasons claim 19, 28, and 48 are patentable over the cited art.

Dependent claims 2-12, 14-18, 20-21, 23-25, 27, 29, 31-41, 43-47, 49-50

The Examiner has also rejected dependent pending claims 2-12, 14-18, 20-21, 23-25, 27, 29, 31-41, 43-47, 49-50 which are patentable over the cited art because they depend, directly or indirectly, from independent claims 1, 13, 19, 22, 26, 28, 30, 42, or 48 which are patentable over the cited art for the reasons discussed above. Moreover, the following of these claims provide additional grounds of patentability over the cited art for the reasons discussed below.

Claims 2, 23, 41

Claims 2, 23, 41 depend on independent claims 1, 22, 30 and further require:  
responsive to sending the code to the client, receiving a second request from the client,  
wherein the second request contains a selection of at least one of the selectable interactions;  
determining from the selection a set of backend servers to process the second request;

forwarding the second request to the set of backend servers;  
receiving results corresponding to the request from applications executing on the backend servers; and  
sending the results to the client.

The Examiner has indicated that col. 4, lines 3-5 of the cited Anuff discloses the claim requirement of receiving results corresponding to the request from applications executing on the backend servers. Applicants submit that col. 4, lines 3-5 of the cited Anuff discusses that by clicking on a headline in the News module, the user can be presented with the full text of the news story to which that headline pertains. Nowhere does col. 4, lines 3-5 of the cited Anuff teach or disclose receiving results from applications executing on the backend servers as required by the claims.

For the above reasons claims 2, 23, 41 are patentable over the cited art.

#### Claims 3, 24, 32

Claims 3, 24, 32 depend on claims 2, 23, 41 respectively, wherein sending the results to the client further comprises:

generating further selectable interactions; and  
sending the further selectable interactions with the results to the client.

The Examiner has indicated that col. 13, lines 53-65 of the cited Anuff disclose the requirements of claims 3, 24, and 32. Col. 13, lines 53-65 of the cited Anuff discusses clicking on a front page to display a list of available categories as well as already selected categories. Nowhere does the cited Anuff teach or disclose the claim requirement of sending further selectable interactions with the results to the client as required by the claims. Should the Examiner maintain the rejection the Examiner is requested to indicate which elements of the cited Anuff are the “further selectable interactions” of the claim requirements and which elements of the cited Anuff are the “results” of the claim requirements.

For the above reasons claims 3, 24, and 32 are patentable over the cited art.

Claims 7, 25 and 36

Original claim 25 has been amended to also include the requirement that the database is in the form of a table. Therefore, claims 7, 25 and 36 include the requirement that the database is in the form of a table.

The Examiner has indicated that col. 10, lines 25-42 of the cited Anuff disclose the claim requirement that the database is in the form of a table. Applicants submit that col. 10, lines 25-42 of the cited Anuff illustrates a permission object model in a class structure. Nowhere does col. 10, lines 25-42 teach or disclose the claim requirement that the database is in the form of a table. Applicants request the Examiner to indicate where a table is mentioned in the cited Anuff should he maintain the rejection of the claims.

For the above reasons claims 7, 25, and 36 are patentable over the cited art.

Claims 10, 25, 39

Claims 10, 25, and 39 have been amended such that amended claims 10, 25, 39 include the requirement that the selectable interactions correspond to operations within the applications and resources related to the applications, and wherein the applications, the operations within the applications, and the resources related to the applications are displayed on a single Web page.

Support for the added requirements may be found in at least FIG. 5 of the original Application.

Nowhere does the cited Anuff teach or disclose the claim requirement that the applications, the operations within the applications, and the resources related to the applications are displayed on a single Web page. The single Web page displayed on FIG. 2 of the cited Anuff does not display the applications, the operations within the applications, and the resources related to the applications on the single Web page. Should the Examiner maintain the rejection the Examiner is requested to identify which element of a single Web page of the cited Anuff is an application, which element is an operation within the application, and which element is a resource related to the application.

For the above reasons claims 10, 25, and 39 are patentable over the cited art.

Claims 12, 41

Claims 12, 41 include the requirement that the resources are selected from the group consisting of multimedia content, objects, files, attributes of objects, program elements, database objects, table entries.

Nowhere does the cited col. 2, lines 61-65 of the cited Anuff that has been used to reject claims 12, 41 teach or disclose the following:

- (a) multimedia content
- (b) attributes of objects
- (c) table entries

For the above reasons claims 12, 41 are patentable over the cited art.

Claims 14, 27, 43

Claims 14, 27, 43 depend on claims 13, 26, 42 respectively and further require:  
receiving a request for an interaction with the backend application from the portal application;

processing the request without checking for the privileges; and  
sending the results of processing the request to the portal application.

The Examiner has indicated that col. 13, lines 60 of the cited Anuff discloses the claim requirement of receiving a request for an interaction with the backend application from the portal application. Col. 13, line 60 of the cited Anuff discusses a user clicking the module's edit button and does not teach or disclose the claim requirement of receiving a request for an interaction with the backend application from the portal application.

The Examiner has indicated that col. 13, lines 53-55 and col. 13, lines 61-63 disclose the claim requirement of processing the request without checking for the privileges. Col. 13, lines 53-55 of the cited Anuff discusses that once a user has been registered, that user's front page is displayed via the browser application. Col. 13, lines 61-63 discusses that when the user clicks the module's edit button the module displays news categories etc. Nowhere does the cited col. 13, lines 53-55 or the cited col. 13, lines 61-63 of the cited Anuff teach or disclose the claim requirement of processing the request without checking for the privileges.

The Examiner has indicated that col. 14, lines 3-9 of the cited Anuff discloses the claim requirement of sending the results of processing the request to the portal application. Col. 14,



lines 3-9 of the cited Anuff discusses sending from the portal server a display for the client. Nowhere does col. 14, lines 3-9 of the cited Anuff disclose the claim requirement of sending the results of processing the request to the portal application.

For the above reasons claims 14, 27, and 43 are patentable over the cited art.

#### Claims 17, 46

Claims 17 and 46 have been amended, such that amended claims 17, 46 include the requirement that the interactions are operations that can be performed on the backend application and on resources related to the backend application, and wherein the backend application, the operations that can be performed on the backend application, and the resources related to the backend application are displayed on a single Web page on a client.

Nowhere does the cited Anuff teach or disclose the claim requirement that the backend application, the operations that can be performed on the backend application, and the resources related to the backend application are displayed on a single Web page on a client. The single Web page displayed on FIG. 2 of the cited Anuff does not display the backend application, the operations that can be performed on the backend application, and the resources related to the backend application on a single Web page.

For the above reasons claims 17 and 46 are patentable over the cited art.

#### Claims 20, 29, 49

Claims 20, 29, 49 have been amended such that amended claims 20, 29, 49 include the requirement that receiving the results further comprises receiving a set of further interactions selectable by the client computer, wherein the portal server performs all necessary authentications of the client computer, and wherein the backend servers avoid any authentication of the client computer.

Nowhere does the cited Anuff teach or disclose the claim requirement that the portal server performs all necessary authentications of the client computer, and wherein the backend servers avoid any authentication of the client computer.

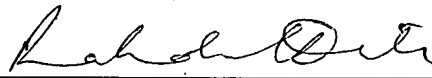
For the above reasons claims 20, 29, and 49 are patentable over the cited art.

### Conclusion

For all the above reasons, Applicant submits that the pending claims 1-50 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0466.

The attorney of record invites the Examiner to contact him at (310) 557-2292 if the Examiner believes such contact would advance the prosecution of the case.

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